



- The Montana Criterion Referenced Test (CRT) compares student achievement to Montana content standards.
 Grades tested;
 Reading and Math: 3-8 and 10
 Science: 4, 8, and 10
 Types of Items on test:
 Multiple choice Reading, Math, and Science
 Short answer only Math
 Constructed response Reading, Math, and Science
 The CRT consists of scored items and embedded field test items.
 The RT is intended to
 Assist educators in planning improvements in curriculum and instruction
 Monitor the progress of schools in meeting state and federal standards.



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- Look for trends, patterns, or clusters in the data.
- Analyze results from multiple choice and constructed response (CR) items separately.
- response (CR) items separately.

 Base decisions on more than one data point.

 Look at results for insights into:

 Curriculum

 Instruction

 Student Achievement

 Share the results appropriately

 Teachers

 Parents

 Students





ANALYSIS AND REPORTING SYSTEM -CRT DATA ANALYSIS

- Analyze
- Test questions and answer choices

 - Correct answers and incorrect answers
 The process used by students to arrive at an incorrect response
 Proficient student responses and below proficient student
 responses
 - Questions and answers related to each Montana standard
- Percentage of correct responses for each standard for multiple choice and constructed response
- Student group statistics
 School and/or or system performance and the state results



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TRANSITION TO THE MONTANA COMMON CORE STANDARDS (MCCS) – SBAC* ASSESSMENT

- 2011-12 through 2013-14 the MontCAS will:
 Use the current standards and reporting system
 Progressively align content with the Montana Common Core Standards
 Implement test questions to align with the Montana Common Core Standards
 Provide released field test items aligned to Montana Common Core Standards.
- Sample Items can be found on the SBAC website at the following link:

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- SBAC Assessment Sample Items
- *Smarter Balanced Assessment Consortium







Multiple Choice Questions

- What Standard is being assessed?
- What do students need to know to answer the question?
- What strategies would they use to get the correct answer?
- What misconceptions or incorrect processes might lead to each incorrect response?
- What are the implications for instruction?







ANALYSIS AND REPORTING SYSTEM -CRT DATA ANALYSIS

Constructed Response Questions

- What do students need to know to answer the question?
- What are the main requirements for a scale 4 answer?
- What would be needed to convert a scale 3 response to a scale 4 response?
- What are the implications for instruction?







ANALYSIS AND REPORTING SYSTEM -RELEASED ITEMS

- Scored items are released annually
- A percentage of test items are released annually.
 There is a Released Items tab within MARS that can be used to access the current year's released items.

- You can view multiple years of released items. You can view multiple years of released items for each grade and subject on the OPI website at: http://opi.mt.gov/Curriculum/MontCAS/index.html?gpm=1_5&tpm=5_2&tpm=4_3

- Skipme4 3
 Click on the year you would like to view for:
 Multiple choice, constructed response, and math short answer items
 Math vocabulary, answer keys
 Scoring rubrics, and examples of student work for constructed response items
 2012 is the first year that items coded to the MCCS have been made available.





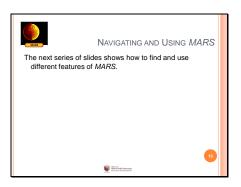




Released Items (Cont.)

On the released items table of contents –please look at: CRT Math Vocabulary Lists for grades 3-8 & 10. The math vocabulary used on the test is listed in this file – you may want to make sure that these terms are included in math instruction.



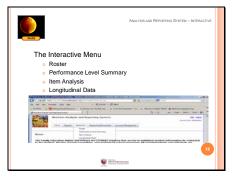


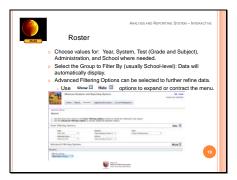


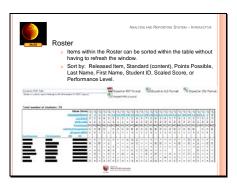


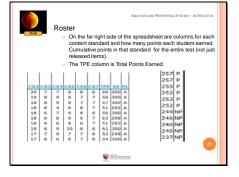


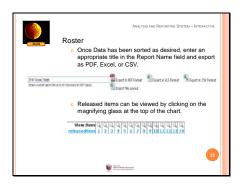


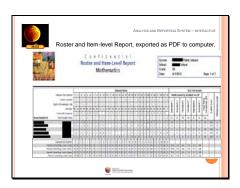




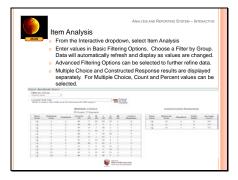


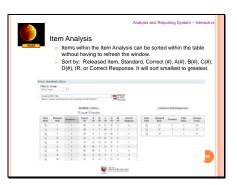


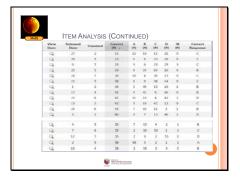


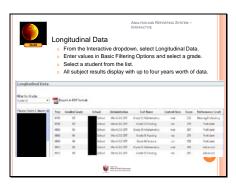
















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ANALYSIS AND REPORTING SYSTEM - CONFIDENTIALITY

Extremely Important!

The information on MARS is confidential and must be protected from viewing by unauthorized individuals.

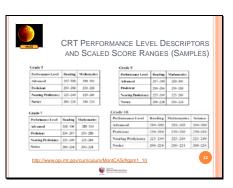
- Individuals.

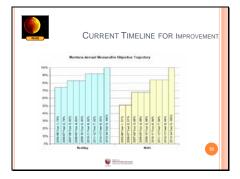
 Never leave your browser open to MARS when you are not directly working with the program.

 Always completely close your browser and clear the history when you are done on your school computer or especially on any other computer.

 Also, please remember if you export data or copy & paste data from MARS treat it with confidentiality.











MARS HELP

- 2008 MARS User and Training Guide: http://opi.mt.gov/Curriculum/MontCAS/index.html?gp m=1 5&tpm=5 4&tpm=8 2
- Technical Support is available at the following:
 E-Mail: MarsHelp@measuredprogress.org
 Phone: (866) 632-7764







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